

DCT/IDCT WITH MINIMUM MULTIPLICATION

ABSTRACT OF THE DISCLOSURE

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A method, apparatus, computer medium, and other embodiments for discrete cosine transform and inverse discrete cosine transform (DCT/IDCT) of image signals are described. A DCT/IDCT module includes a plurality of different cores. One embodiment of a core includes two sets of lookup tables to provide multiplication and add operations for the DCT and IDCT functions. Another embodiment of a core include one set of lookup tables, while another embodiment of a core includes no lookup table. The DCT/IDCT module provides forward DCT and IDCT functionality without the use of additional multipliers.